487.1 meters AMSL at coordinates 40 33' 54" N.L., 75 26' 26" W.L. The FAA New York office has assigned Aeronautical Study number 90-AEA-0140-OE for this tower.

10. CONCLUSIONS

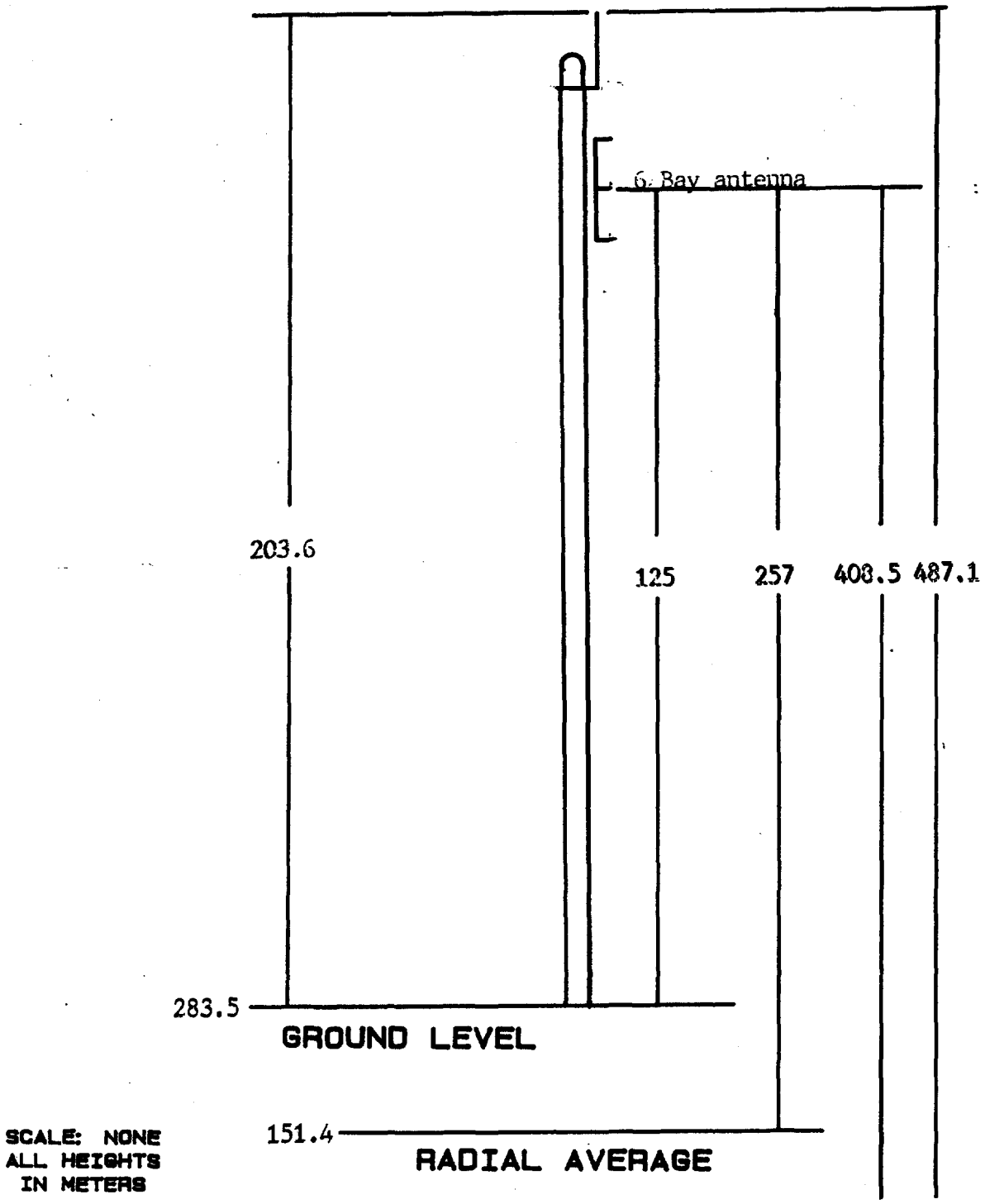


FIGURE ONE

ANTENNA VERTICAL PLAN SKETCH

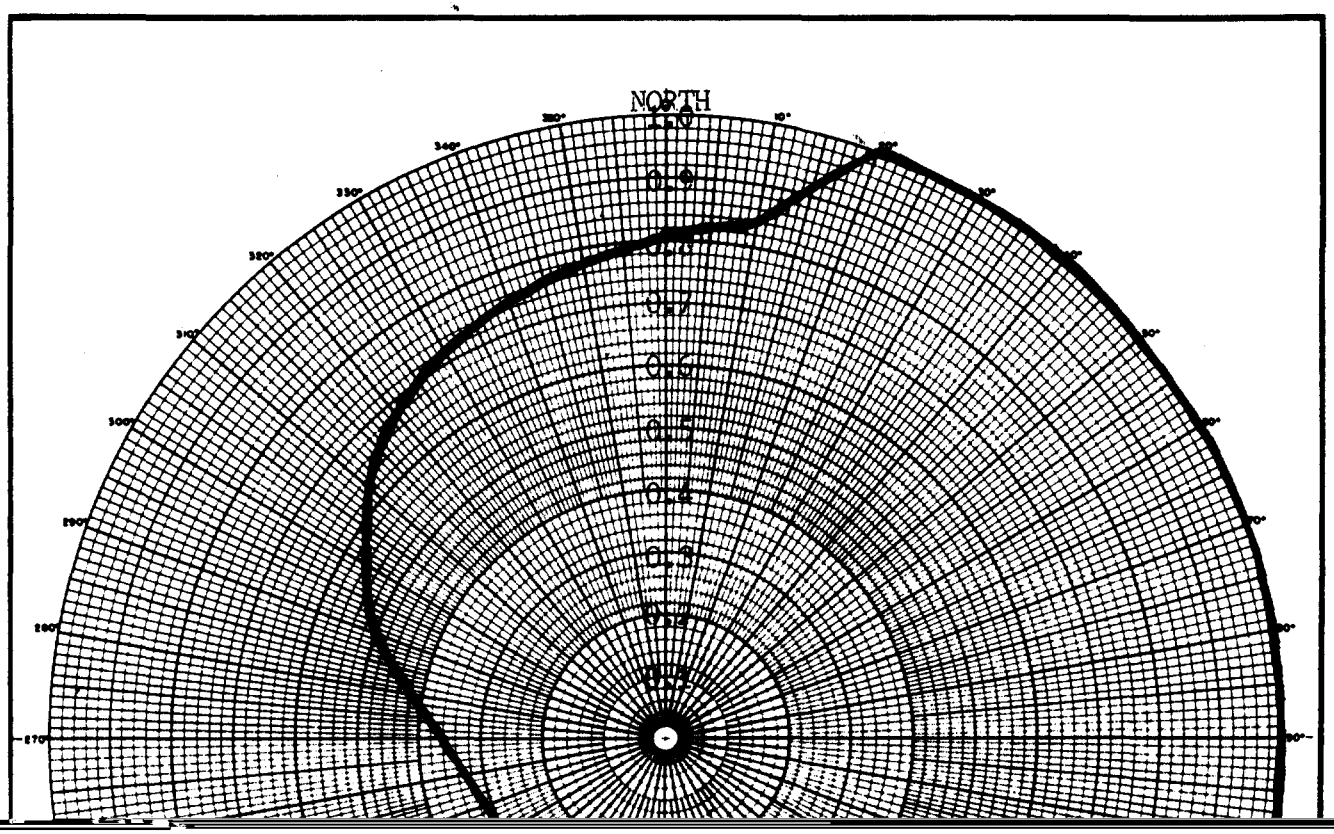

NORTH
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
270°
90°

TABLE 3

ANTENNA HORIZONTAL PLANE PATTERN TABULATION

BEARING	FIELD
000	.81
010	.84
020 THRU 140	1.00
150	.84
160	.69
170	.59
180	.50
190	.42
200	.36
210	.33
220	.31
230	.30
240	.30
250	.31
260	.33
270	.36
280	.42
290	.50
300	.56
310	.63
320	.68
330	.71
340	.75
350	.78

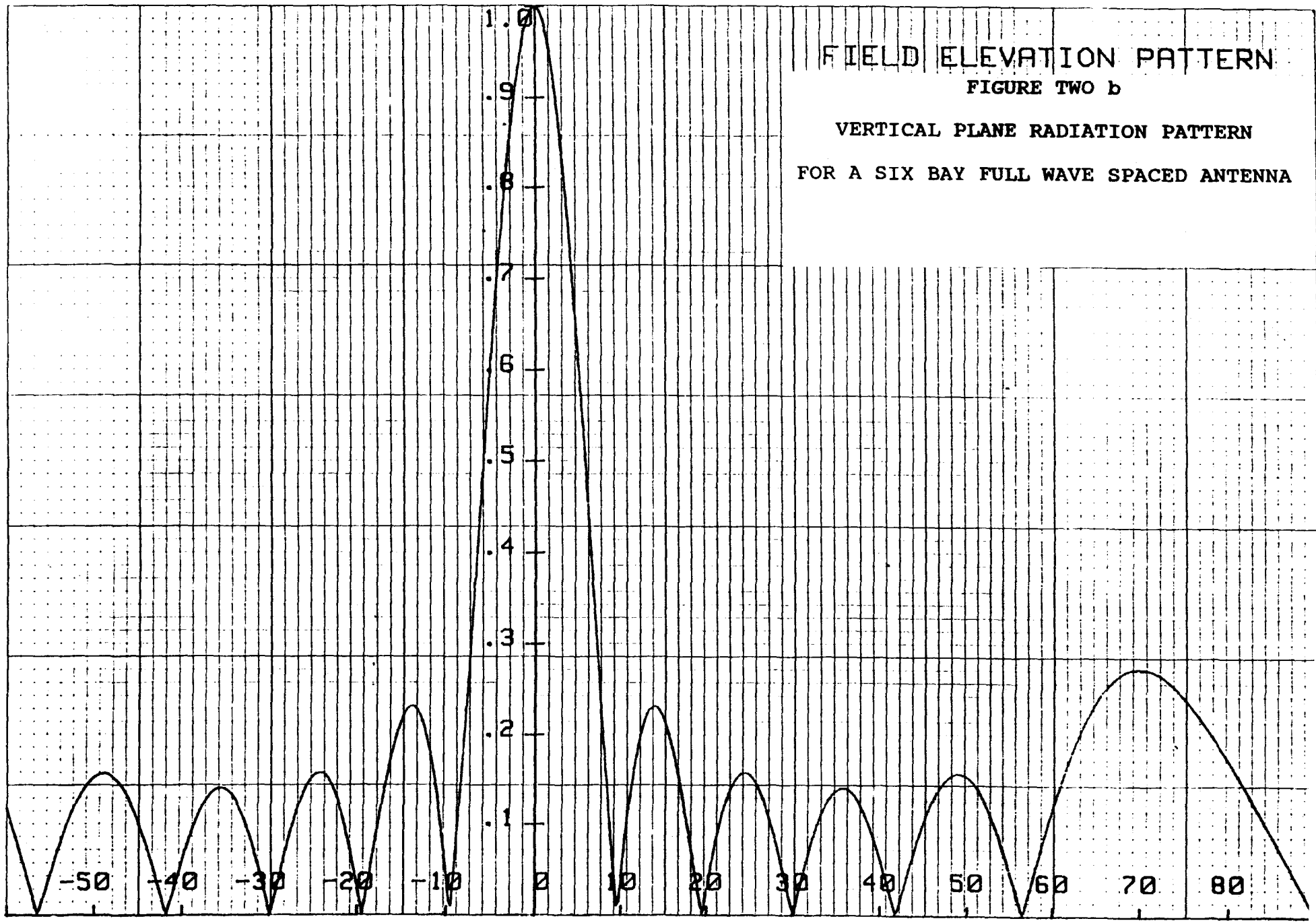


FIGURE TWO b

VERTICAL PLANE RADIATION PATTERN

FOR A SIX BAY FULL WAVE SPACED ANTENNA

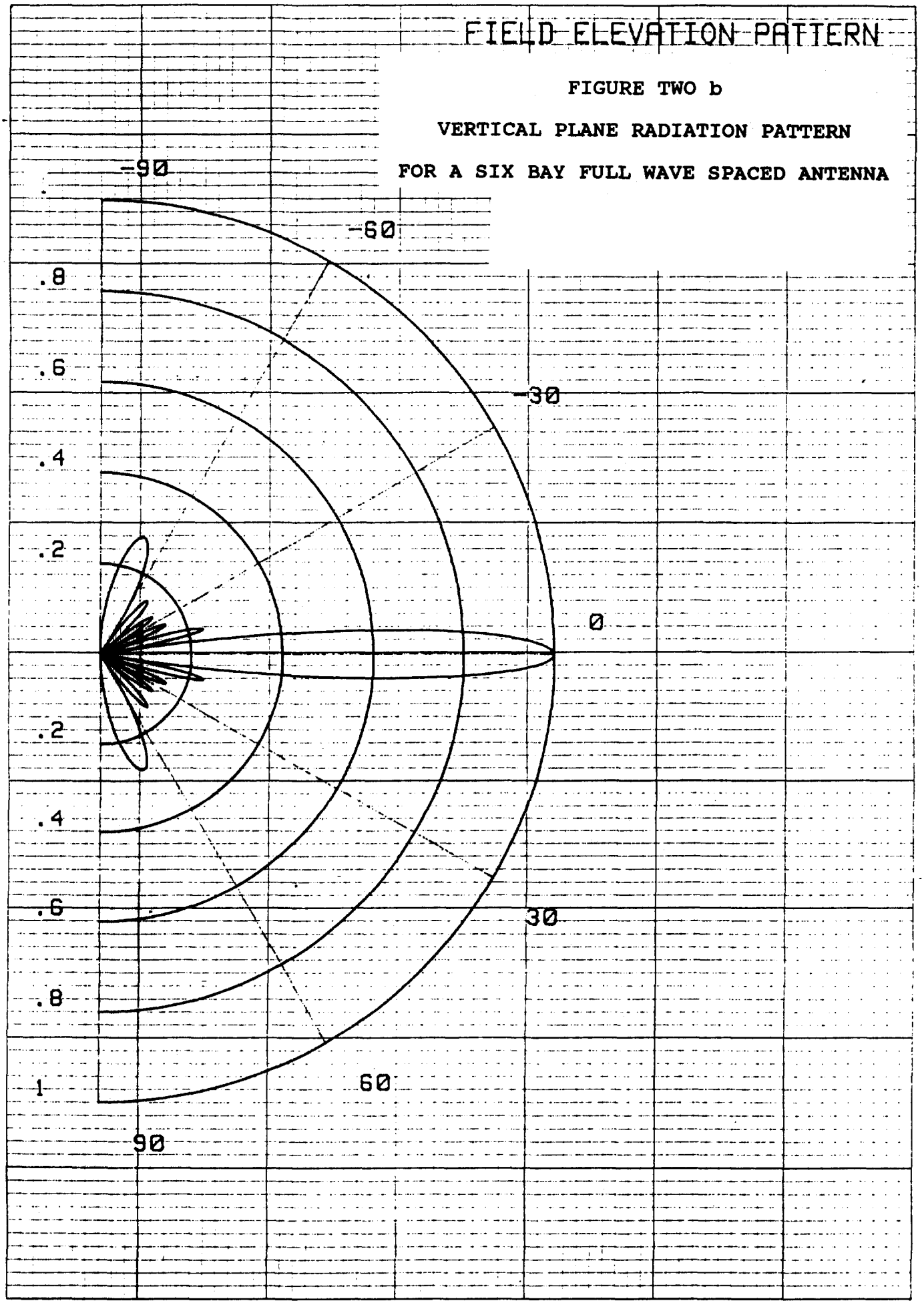


FIGURE TWO b

VERTICAL PLANE RADIATION PATTERN

FOR A SIX BAY FULL WAVE SPACED ANTENNA

46 0700

K&E 10 X 10 TO THE INCH KEUFFEL & ESSER CO. MADE IN U.S.A.

TABLE 4

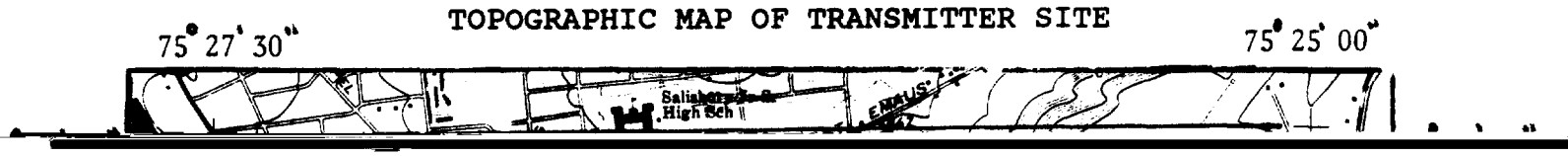
VERTICAL PLANE RADIATION PATTERN TABULATION

ANGLE	FIELD
0	1.00
-1	.98
-2	.921
-3	.84
-4	.728
-5	.583
-6	.460
-7	.314
-8	.173
-9	.059
-10	.016
-11	.136
-12	.231

The above value were derived from the attached vertical plane radiation patterns.

FIGURE THREE

TOPOGRAPHIC MAP OF TRANSMITTER SITE



500
1000
1500
ABANDONED
Danielsville
Delps
Clearfield
(946)
(911)

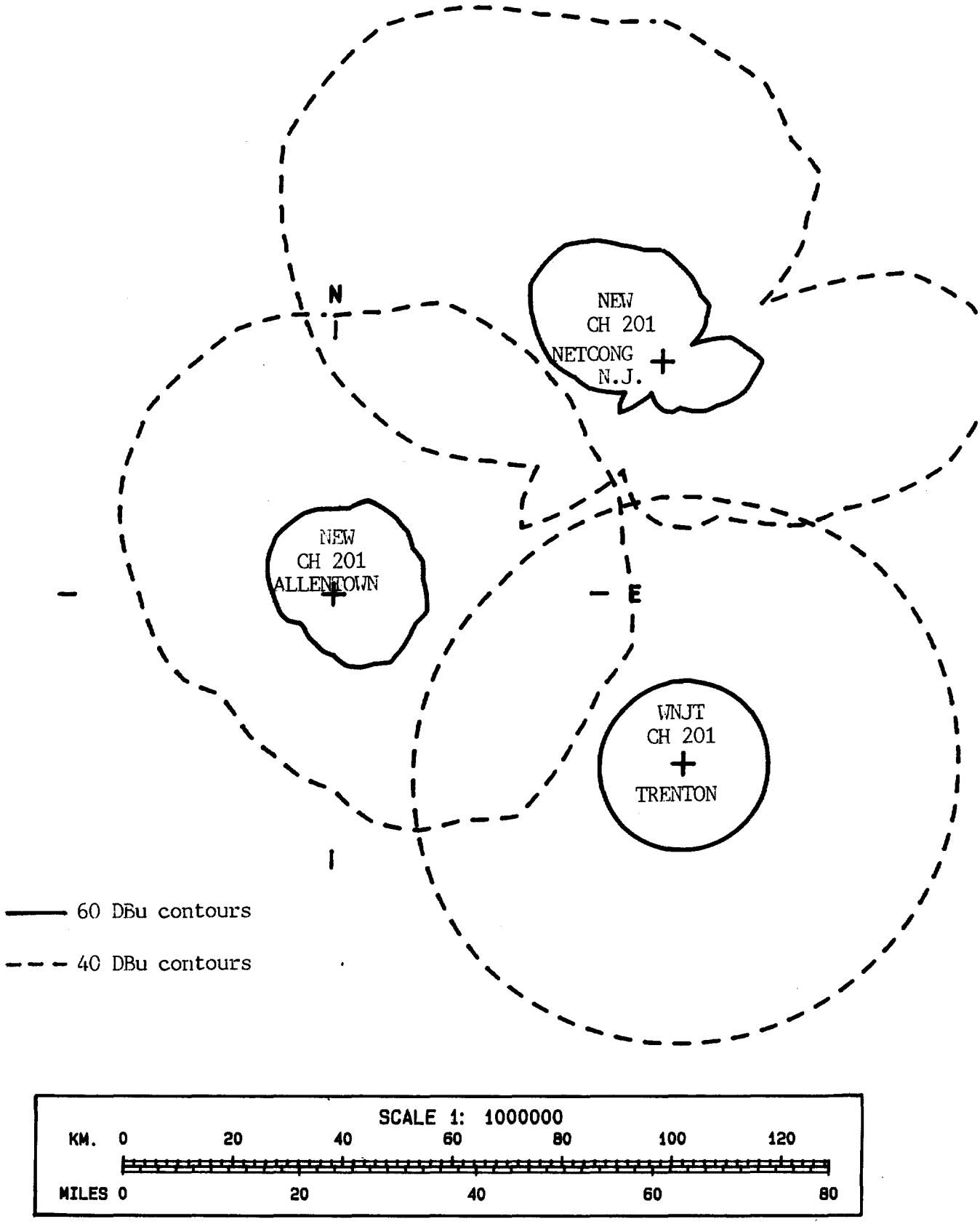
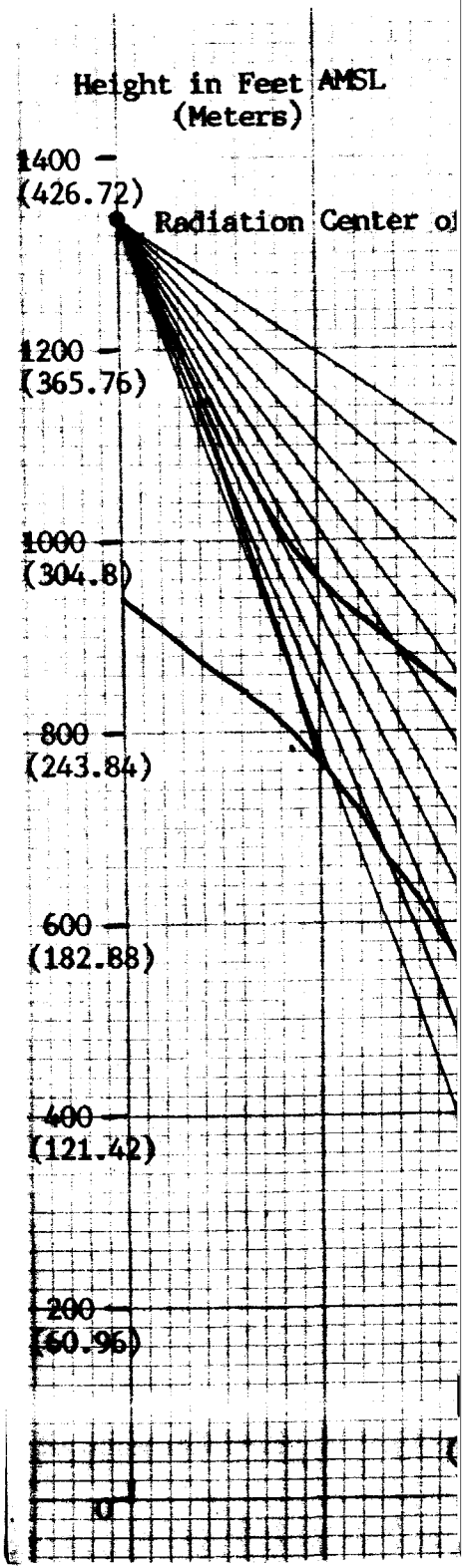


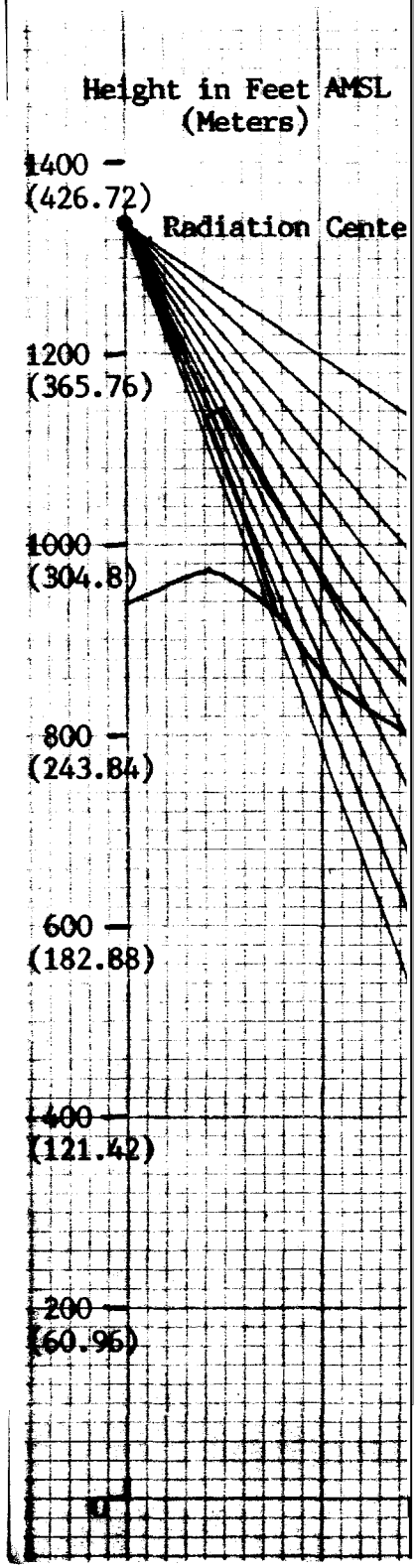
FIGURE FIVE

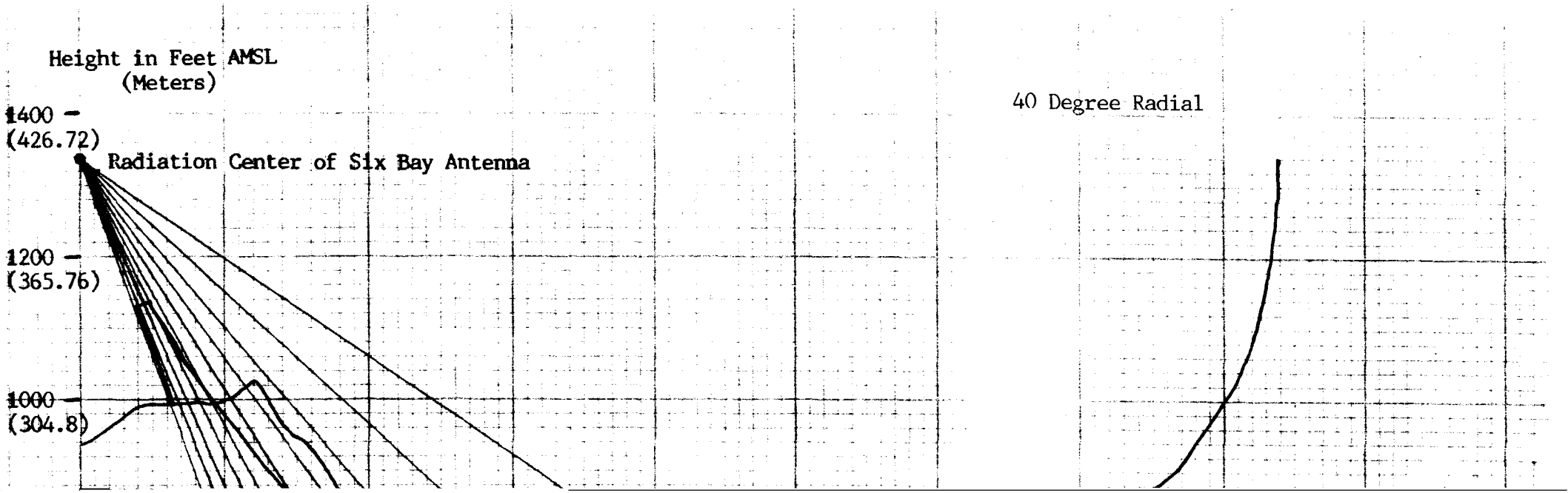
ALLOCATIONS STUDY

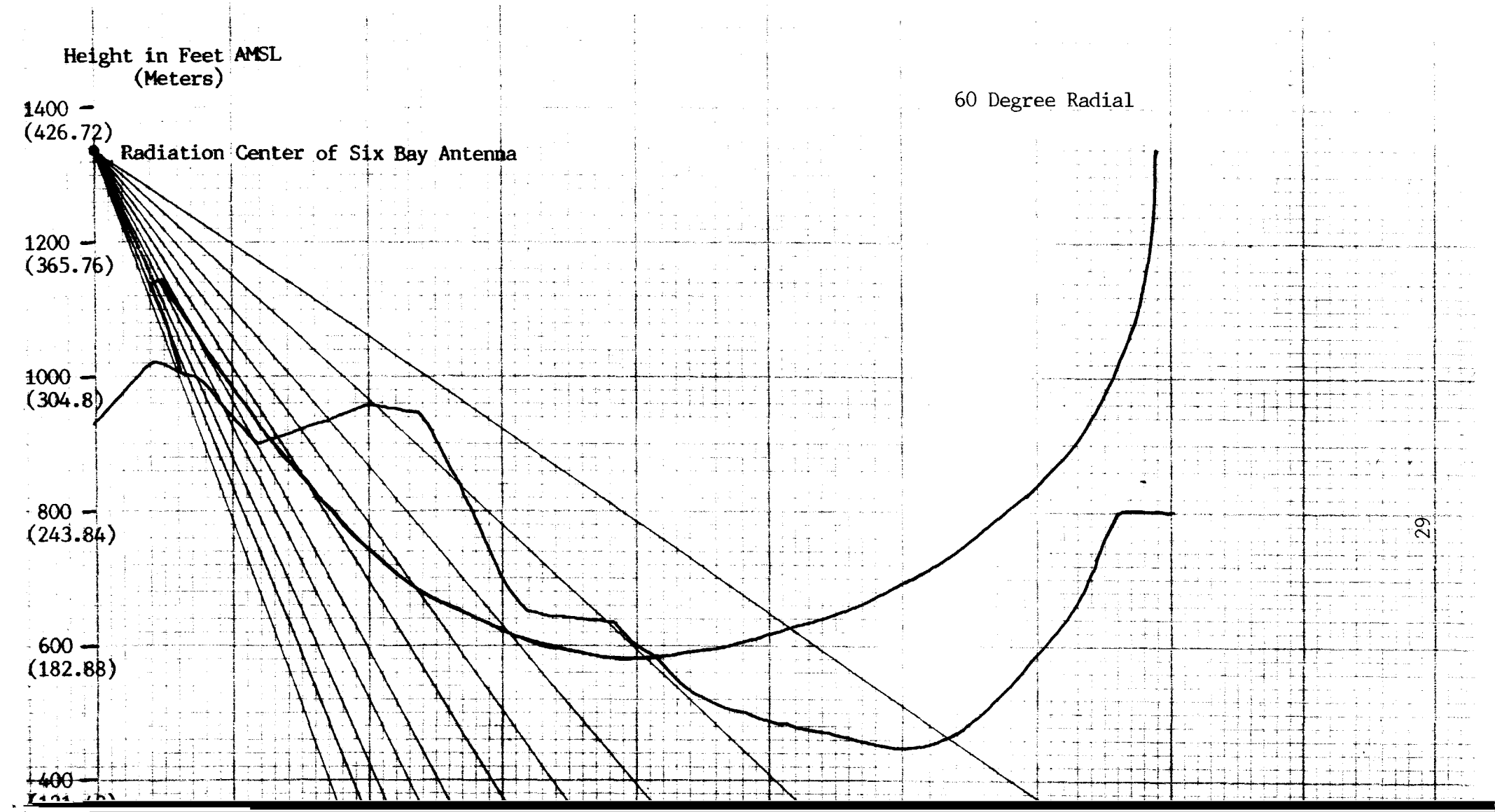
Keck Park
Quarry
CANAL
500
500
Cem
589
ROAD

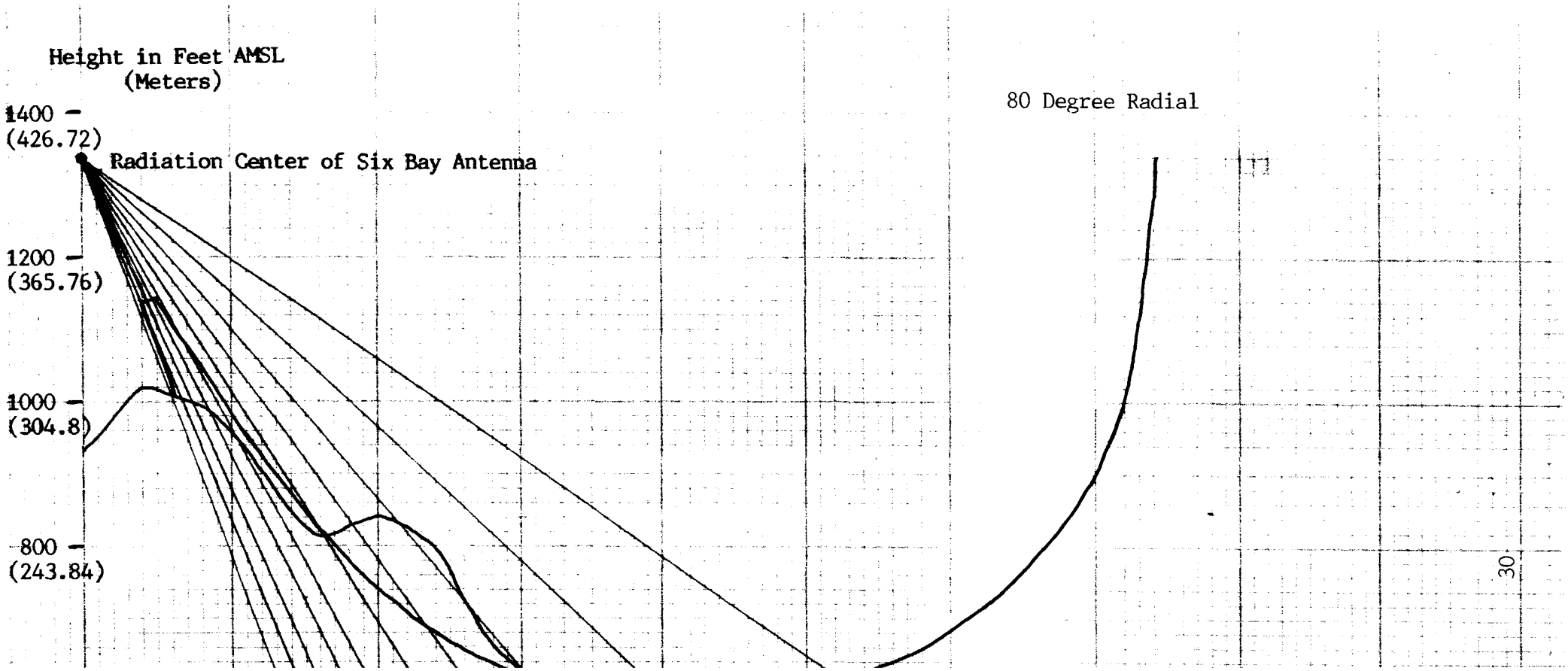
MIDDLETOWN

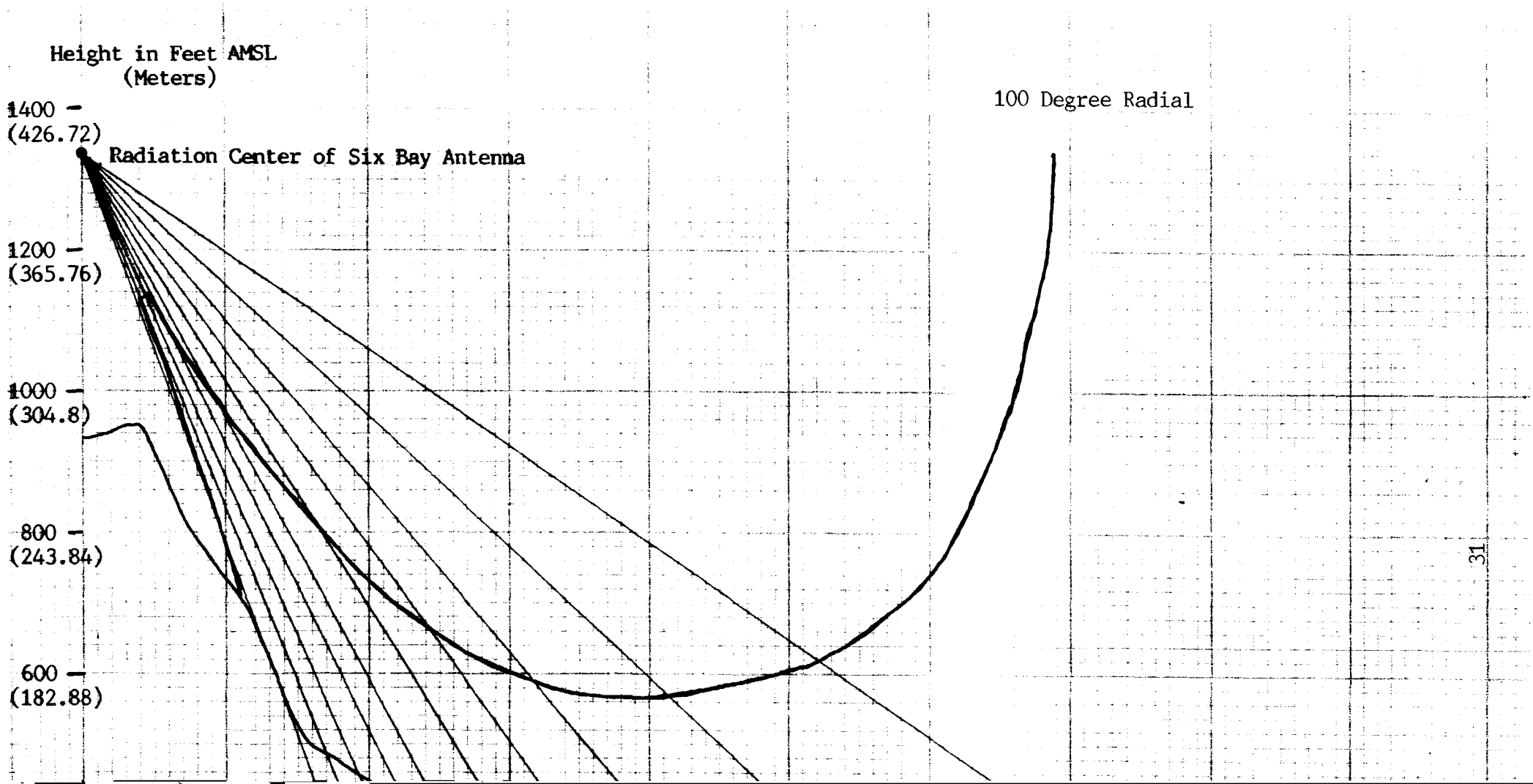

Height in Feet AMSL
(Meters)
1400
(426.72)
Radiation Center o
1200
(365.76)
1000
(304.8)
800
(243.84)
600
(182.88)
400
(121.42)
200
(60.96)
0

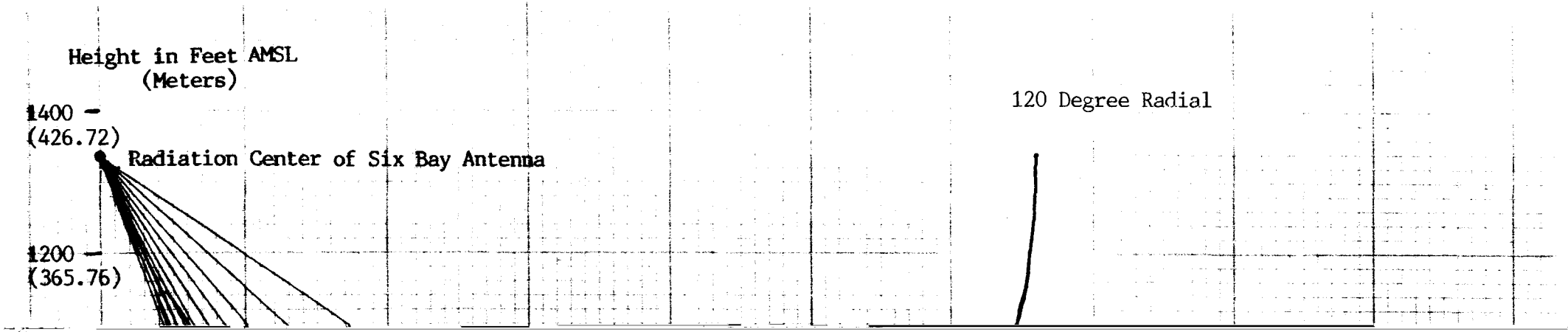

Height in Feet AMSL
(Meters)
1400
(426.72)
Radiation Cente
1200
(365.76)
1000
(304.8)
800
(243.84)
600
(182.88)
400
(121.42)
200
(60.96)
0

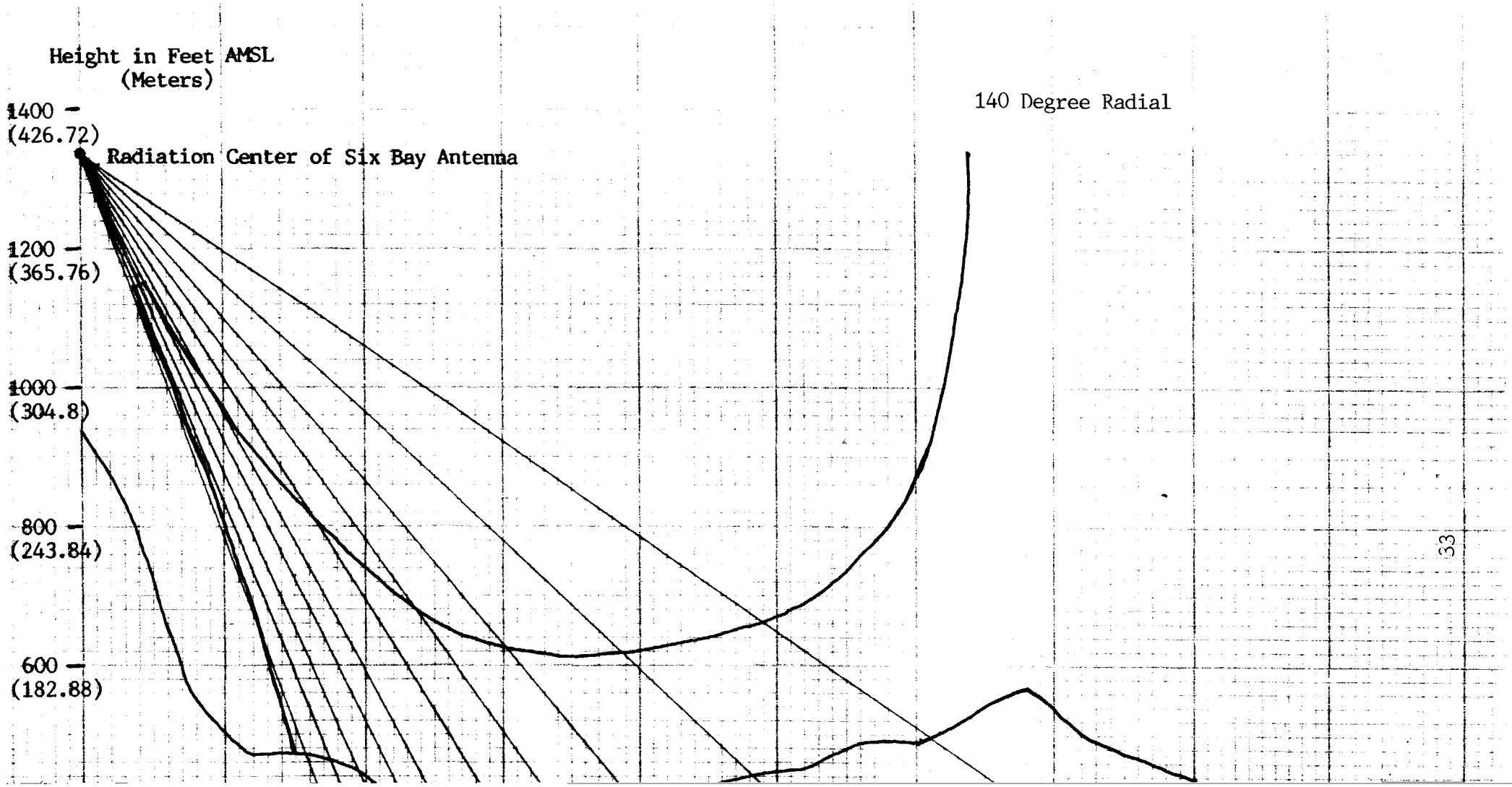

Height in Feet AMSL
(Meters)
1400
(426.72)
Radiation Center of Six Bay Antenna
1200
(365.76)
1000
(304.8)
40 Degree Radial

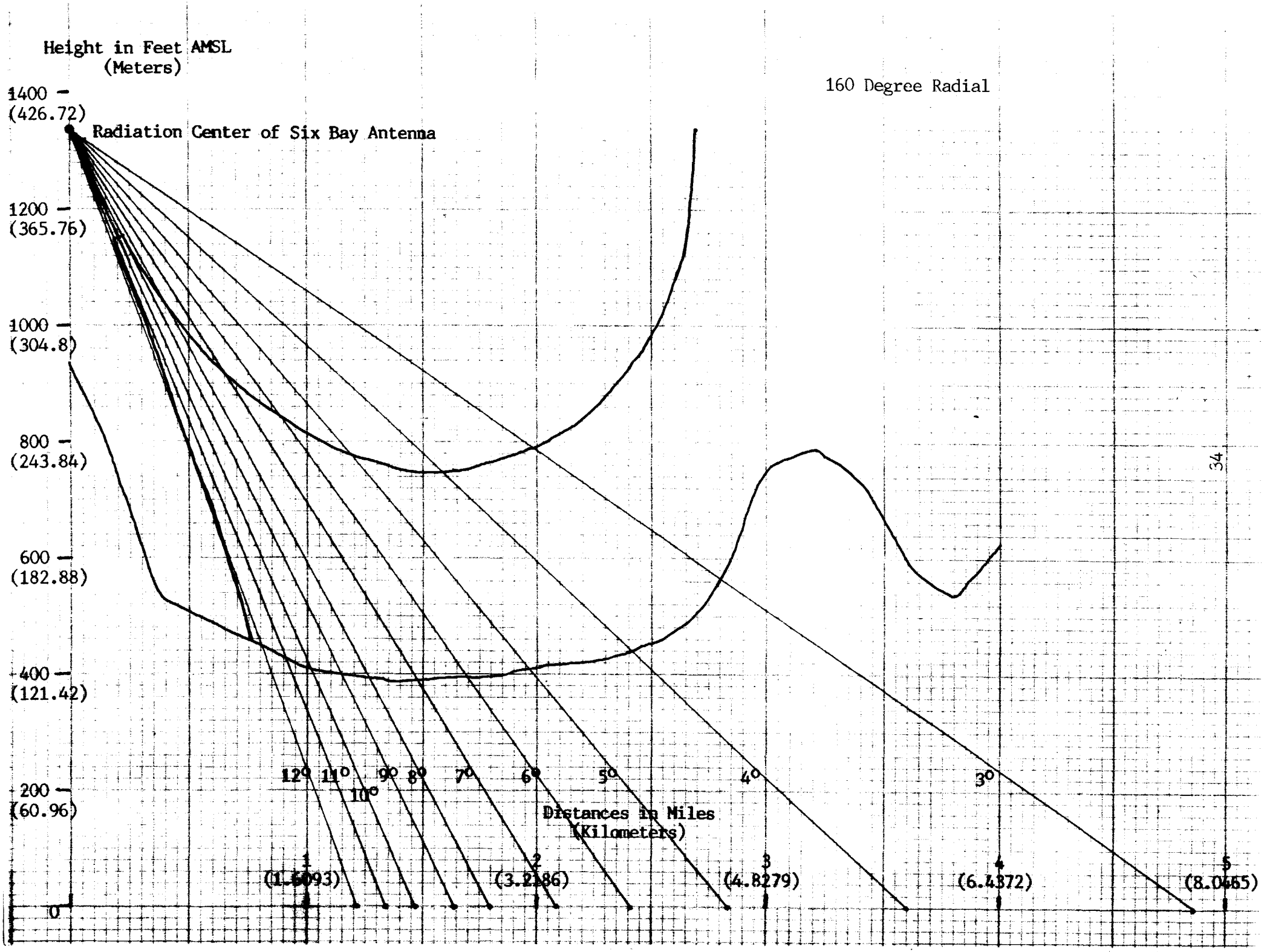

Height in Feet AMSL
(Meters)
1400
(426.72)
Radiation Center of Six Bay Antenna
1200
(365.76)
1000
(304.8)
800
(243.84)
600
(182.88)
400
60 Degree Radial

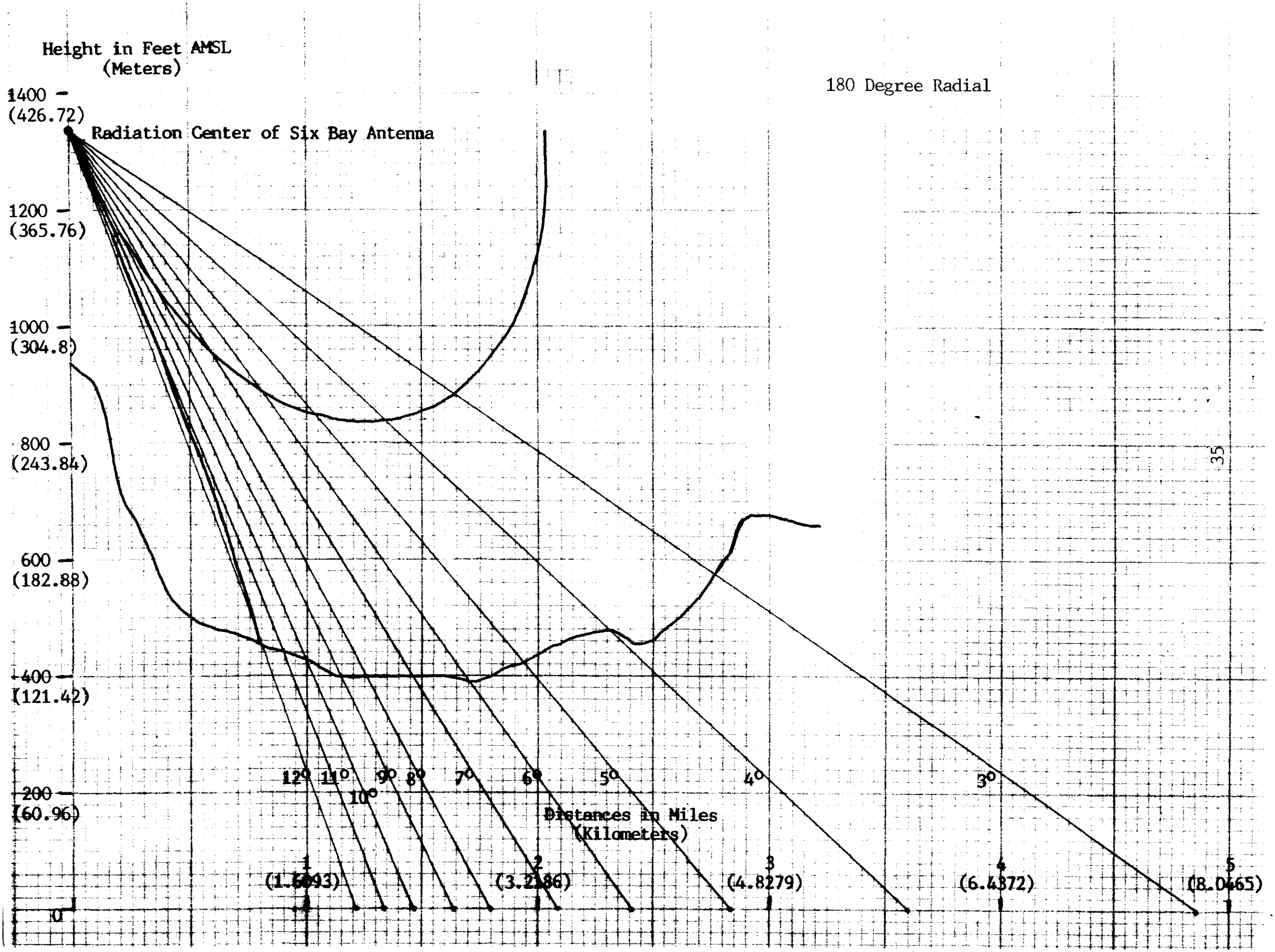

Height in Feet AMSL
(Meters)
1400
(426.72)
Radiation Center of Six Bay Antenna
1200
(365.76)
1000
(304.8)
800
(243.84)
80 Degree Radial

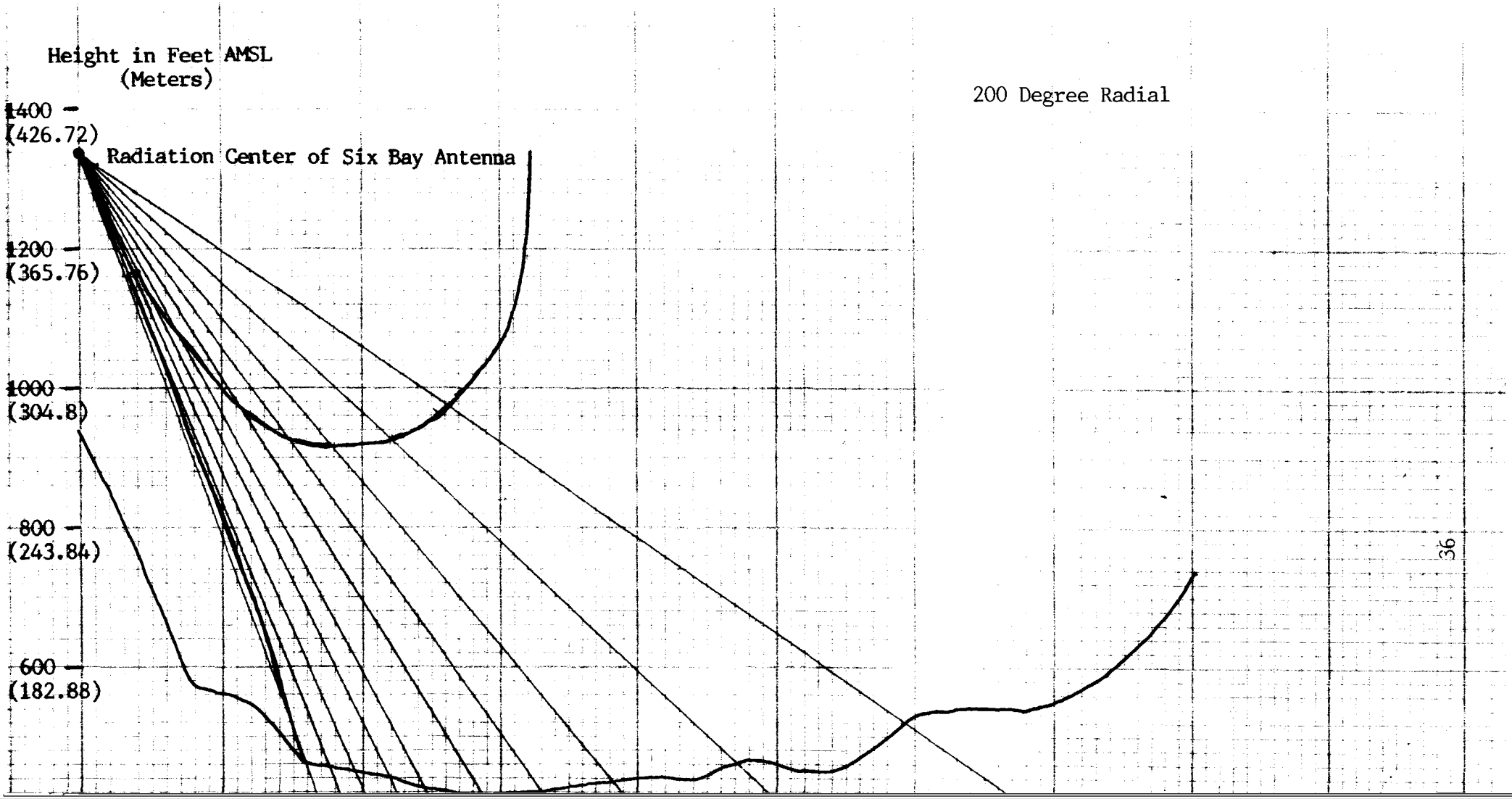

Height in Feet AMSL
(Meters)
1400
(426.72)
1200
(365.76)
1000
(304.8)
800
(243.84)
600
(182.88)
Radiation Center of Six Bay Antenna
100 Degree Radial

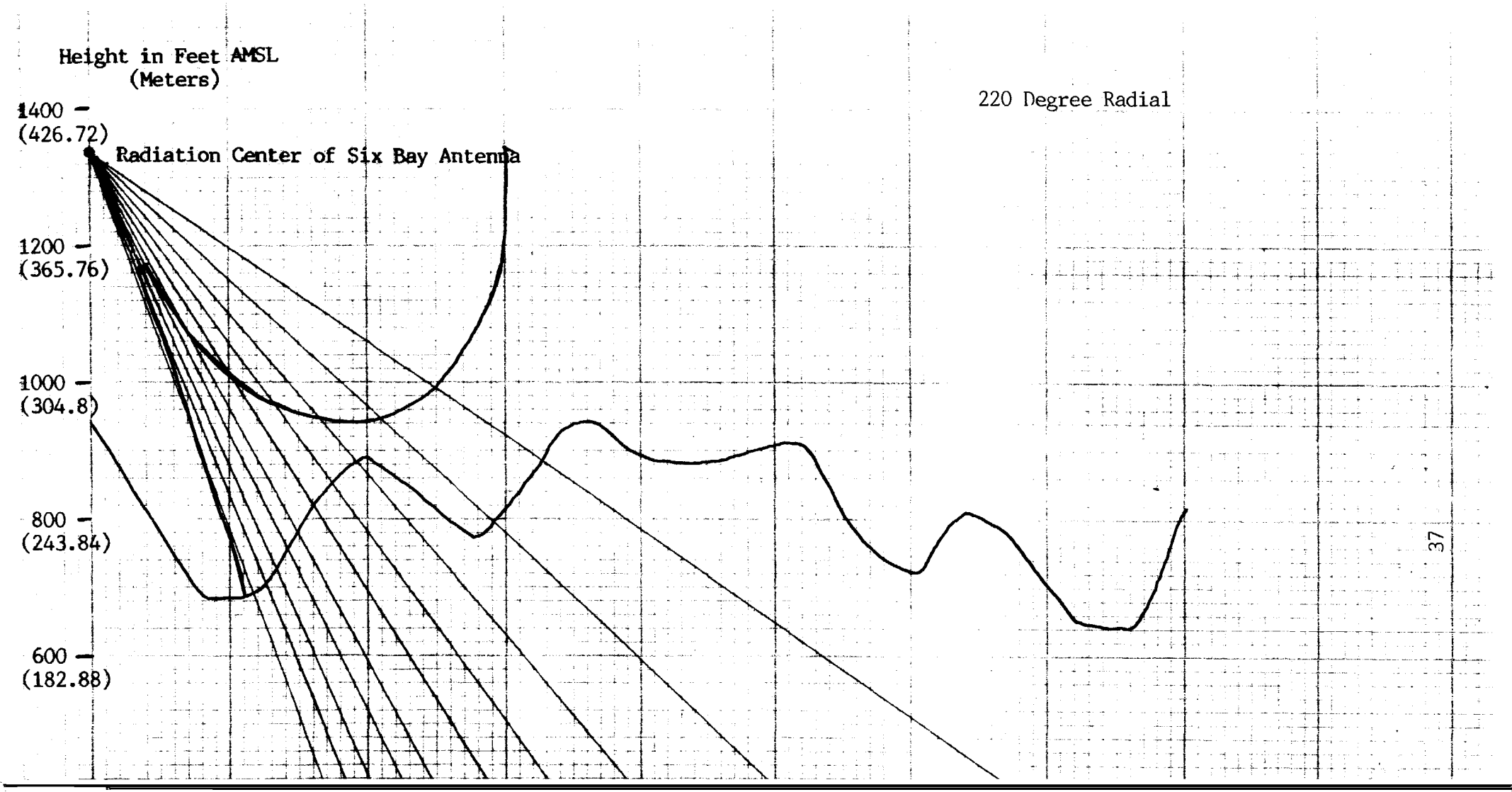

Height in Feet AMSL
(Meters)
1400
(426.72)
Radiation Center of Six Bay Antenna
1200
(365.76)
120 Degree Radial

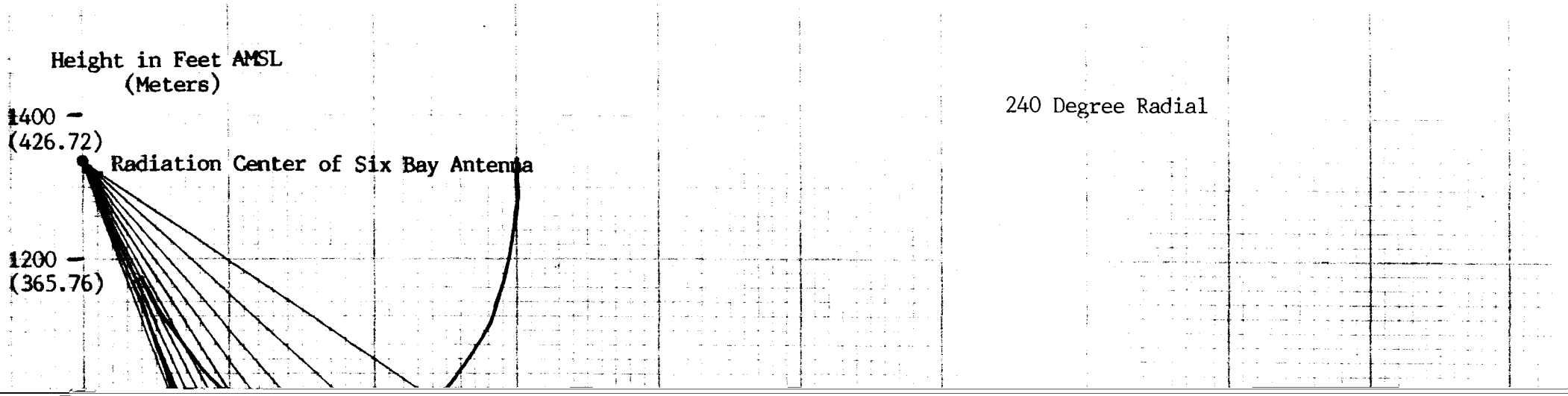

Height in Feet AMSL
(Meters)
1400
(426.72)
Radiation Center of Six Bay Antenna
1200
(365.76)
1000
(304.8)
800
(243.84)
600
(182.88)
140 Degree Radial


Height in Feet AMSL
(Meters)
160 Degree Radial
1400
(426.72)
Radiation Center of Six Bay Antenna
1200
(365.76)
1000
(304.8)
800
(243.84)
600
(182.88)
400
(121.42)
200
(60.96)
0
12°
11°
10°
9°
8°
7°
6°
5°
4°
3°
Distances in Miles
(Kilometers)
1
(1.6093)
2
(3.2186)
3
(4.8279)
4
(6.4372)
5
(8.0465)


Height in Feet AMSL
(Meters)
180 Degree Radial
1400
(426.72)
Radiation Center of Six Bay Antenna
1200
(365.76)
1000
(304.8)
800
(243.84)
600
(182.88)
400
(121.42)
200
(60.96)
0
12°
11°
10°
9°
8°
7°
6°
5°
4°
3°
Distances in Miles
(Kilometers)
1
(1.6093)
2
(3.2186)
3
(4.8279)
4
(6.4372)
5
(8.0465)
35


Height in Feet AMSL
(Meters)
200 Degree Radial
1400
(426.72)
Radiation Center of Six Bay Antenna
1200
(365.76)
1000
(304.8)
800
(243.84)
600
(182.88)


Height in Feet AMSL
(Meters)
1400
(426.72)
1200
(365.76)
1000
(304.8)
800
(243.84)
600
(182.88)
Radiation Center of Six Bay Antenna
220 Degree Radial


Height in Feet AMSL
(Meters)
1400
(426.72)
Radiation Center of Six Bay Antenna
1200
(365.76)
240 Degree Radial